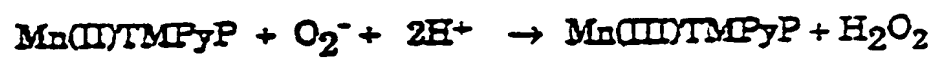
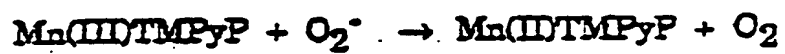


Figure 1**Mechanism**

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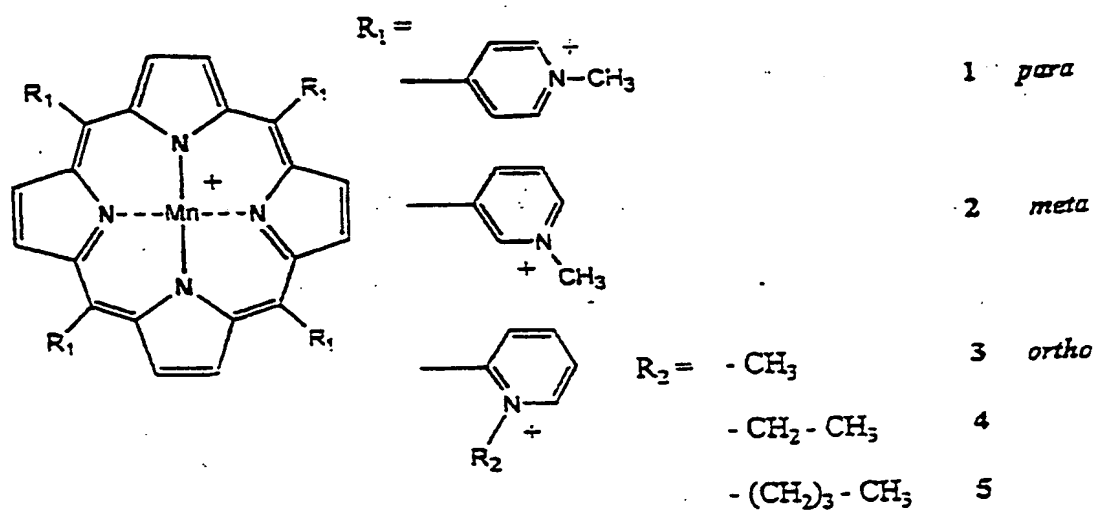


Figure 2. Manganese *meso*-tetraKis *N*-alkyl-pyridinium based porphyrins

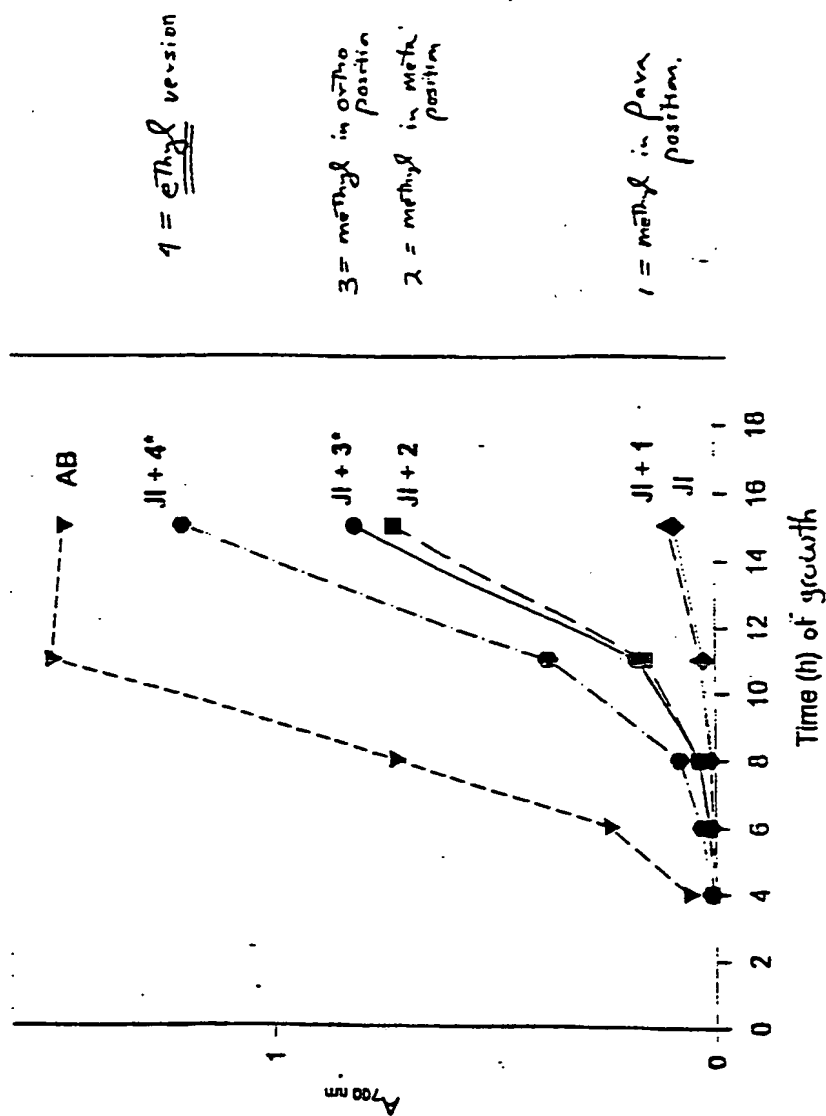
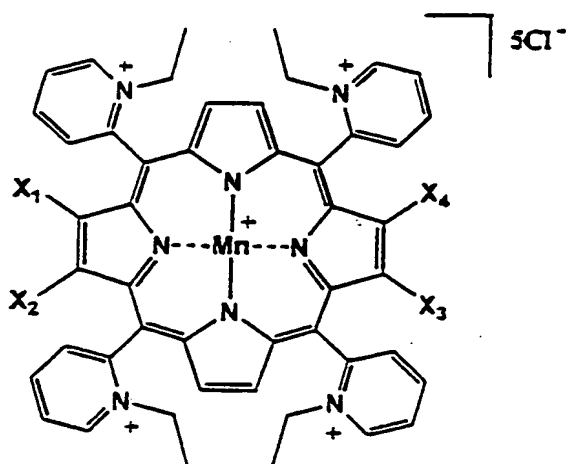


Figure 3 SOD activity in vivo (*E. coli*) of 1, 2, 3* and 4* (25 μ M) in minimal medium (*mixture of atropisomers, JI = SODs deficient strain, AB = parental strain).



MnTE-2-PyP ⁵⁺	X ₁ =X ₂ =X ₃ =X ₄ =H
MnCl ₁ TE-2-PyP ⁵⁺	X ₁ =Cl, X ₂ =X ₃ =X ₄ =H
MnCl ₂ TE-2-PyP ⁵⁺	X ₁ =X ₂ =Cl, X ₃ =X ₄ =H
MnCl ₃ TE-2-PyP ⁵⁺	X ₁ =X ₂ =X ₃ =Cl, X ₄ =H
MnCl ₄ TE-2-PyP ⁵⁺	X ₁ =X ₂ =X ₃ =X ₄ =Cl

Figure 4

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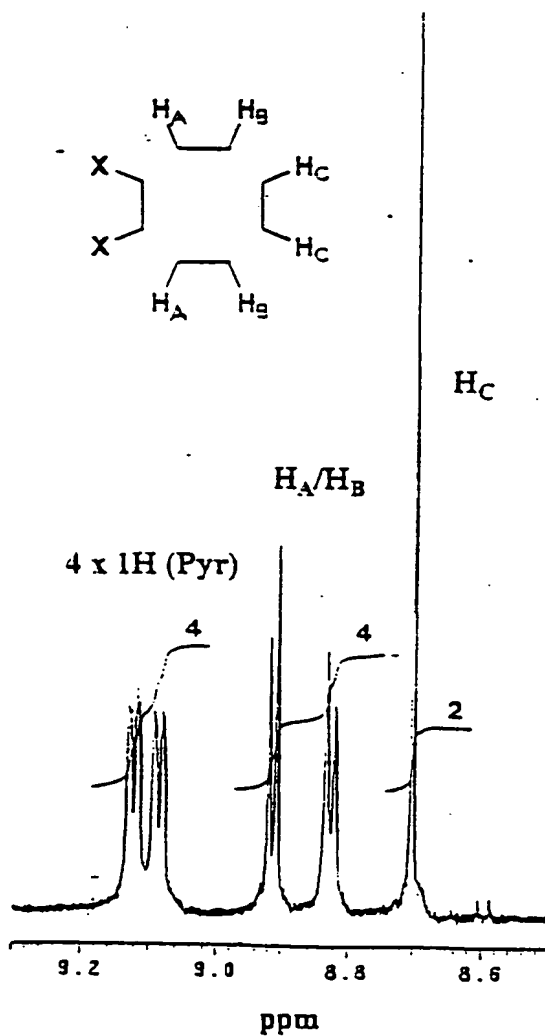


Figure 5

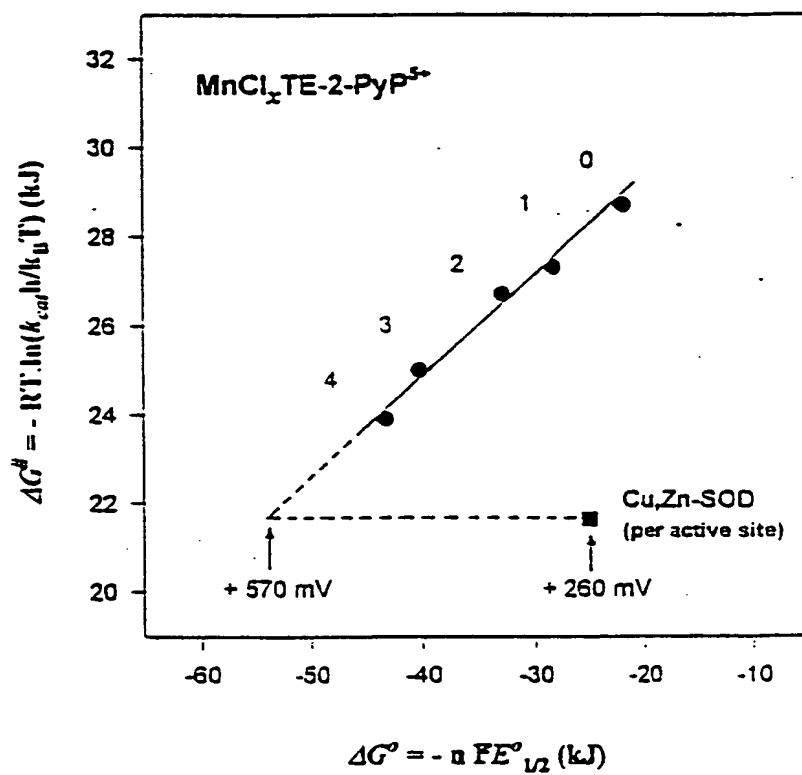
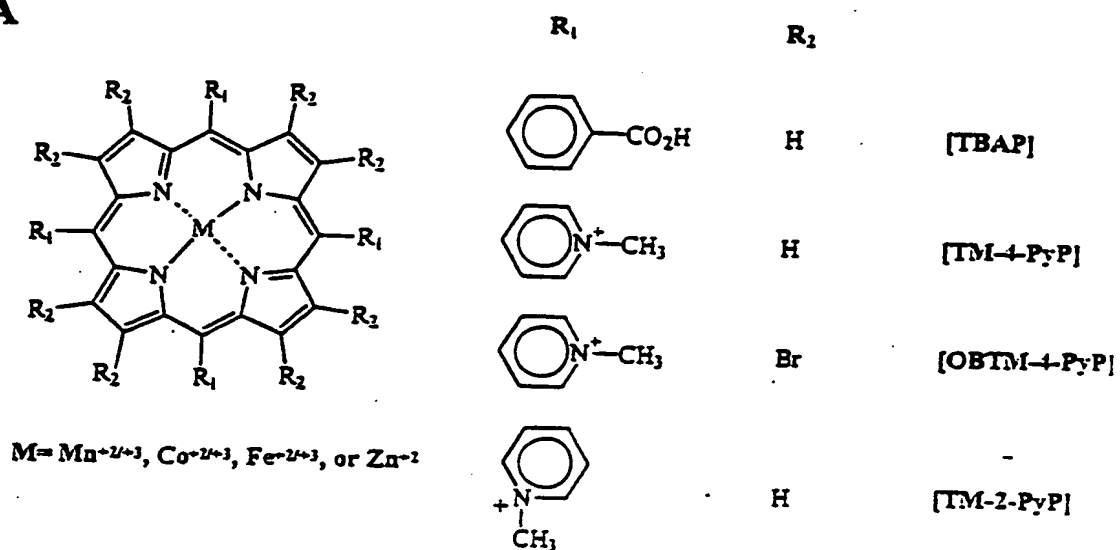


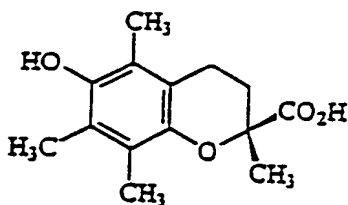
Figure 6

A



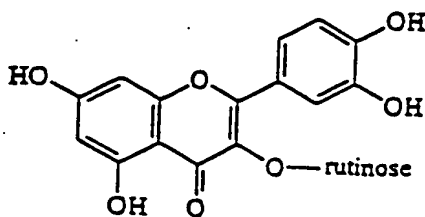
Metalloporphyrins

B



Trolox

C



(+)-Rutin

Figure 7

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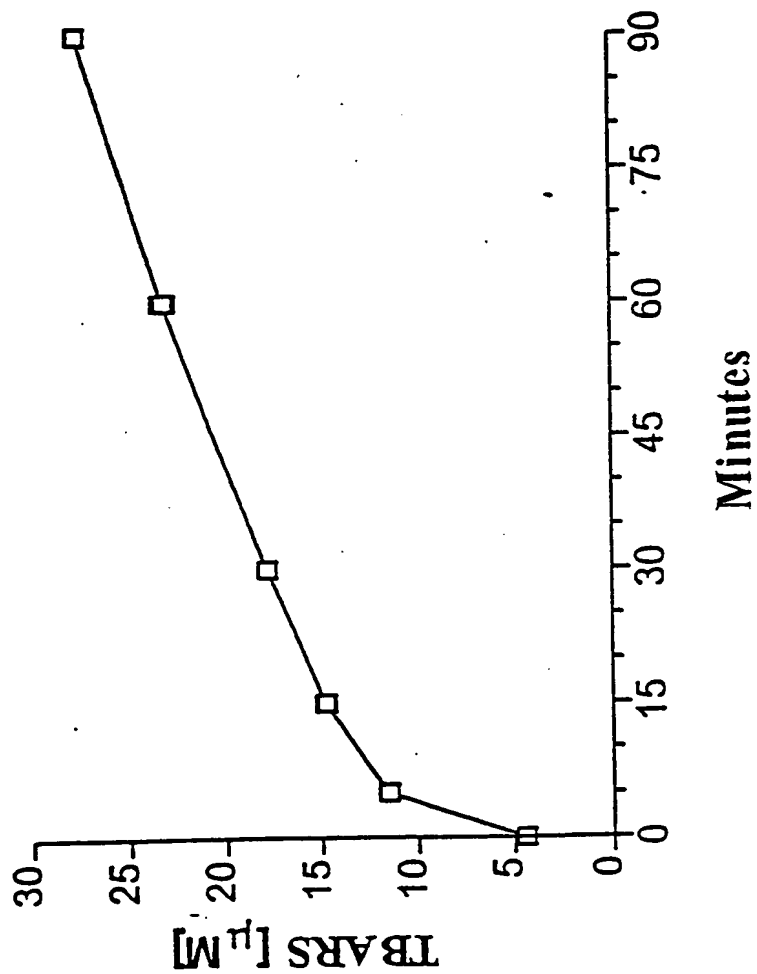


Figure 8

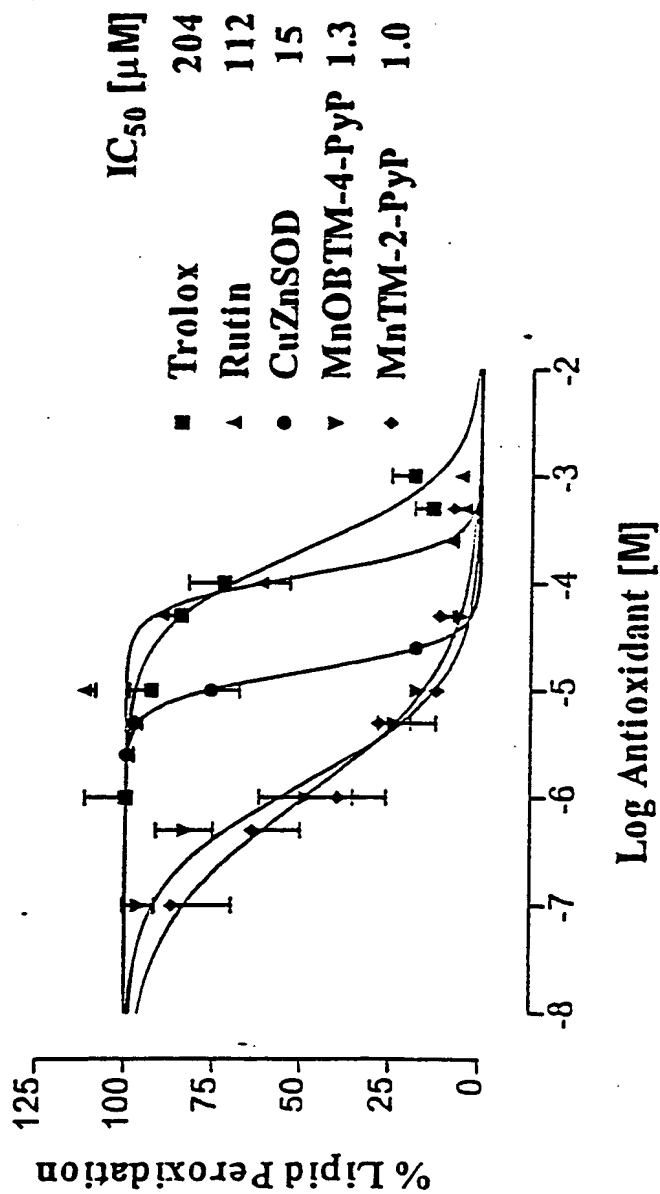


Figure 9

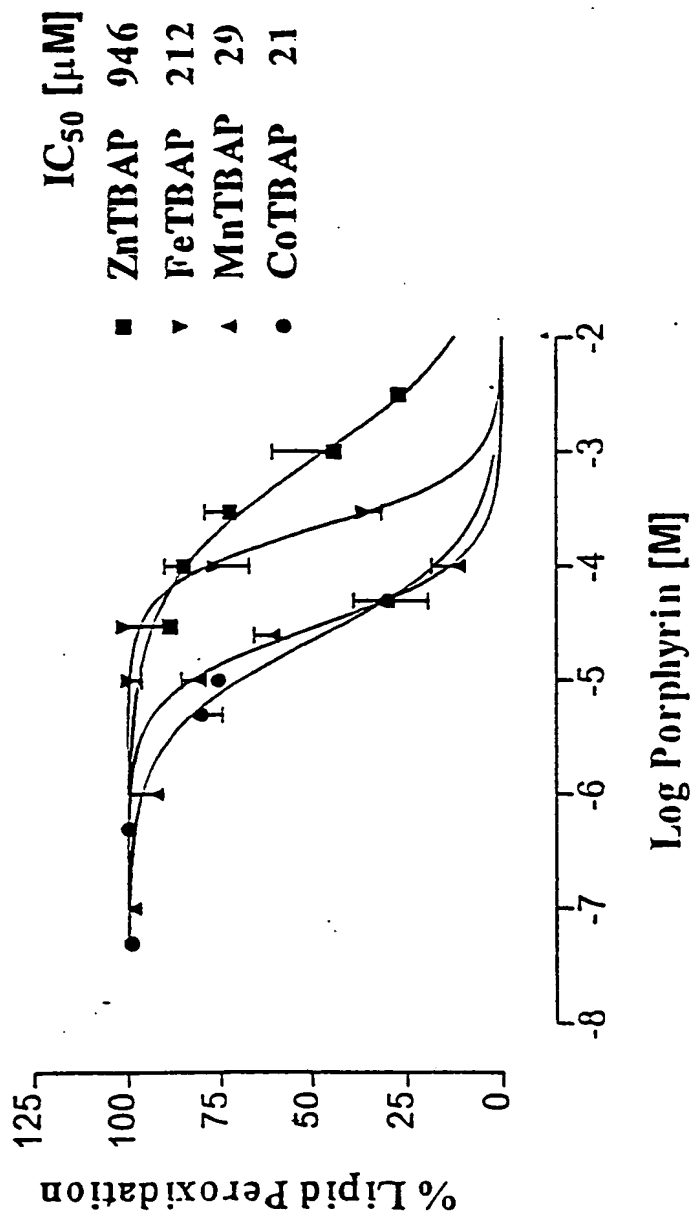


Figure 10

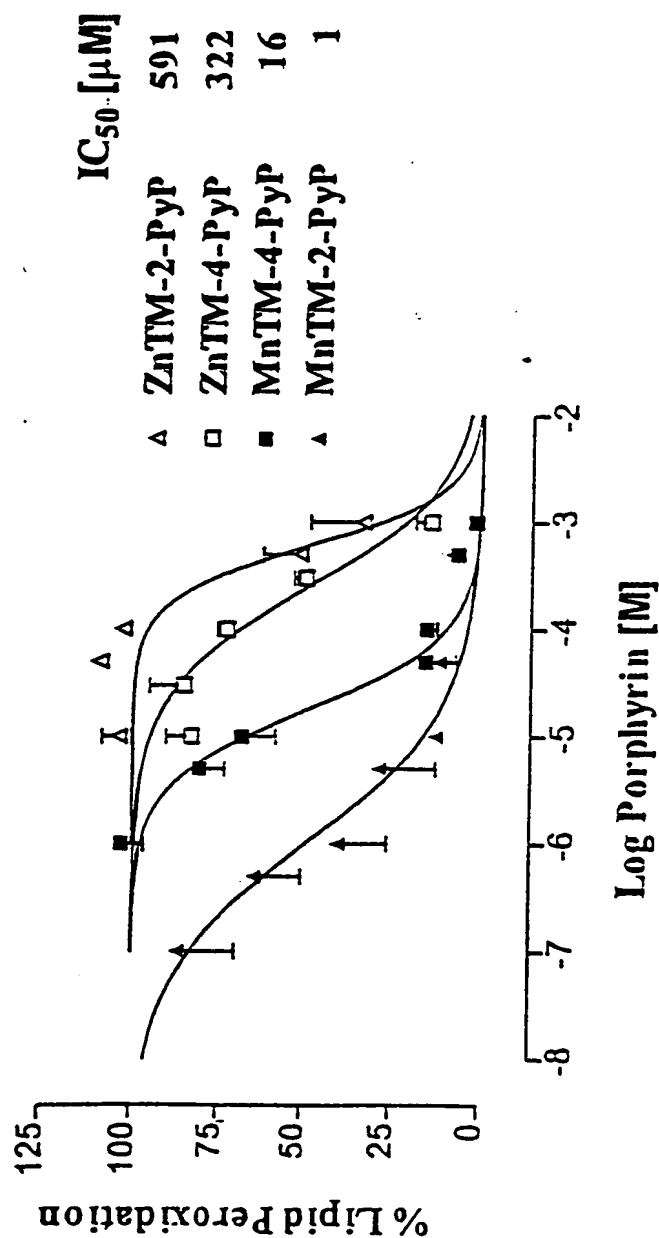


Figure 11